AMENDMENT TO THE CLAIMS

1. (Currently amended) A helically-toothed-belt transmission device for transmitting driving force by meshing between a helically-toothed belt and a helically-toothed pulley, the device being characterized in that:

when denoting a tooth pitch as "Pt", a tooth helix angle as " θ ", and a belt width of said helically-toothed belt as "W", said tooth helix angle " θ " is set in a range of $-0.2 \le 1 - W \cdot \tan \theta$ / Pt ≤ 0.75 , and;

denoting a tooth height as "H", a backlash between said helically-toothed belt and said helically-toothed pulley is set to be from 1.6% to 3% of said tooth pitch "Pt" when measured at half the tooth height (1/2 H).

2. (Original) A helically-toothed-belt transmission device for transmitting driving force by meshing between a helically-toothed belt and a helically-toothed pulley, the device being characterized in that:

when denoting a tooth pitch as "Pt", a tooth helix angle as " θ ", and a belt width of said helically-toothed belt as "W", said tooth helix angle " θ " is set in a range of

1 - W · tan θ / Pt ≤ 0, and;

compressibility of said helically-toothed belt is set to be from 1.5% to 5%.